Fig. 1

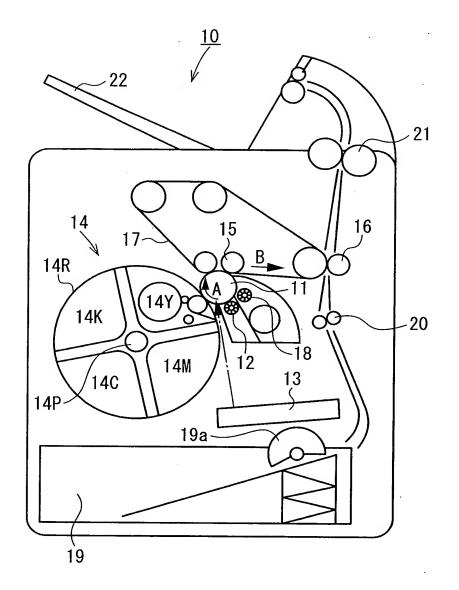


Fig. 2

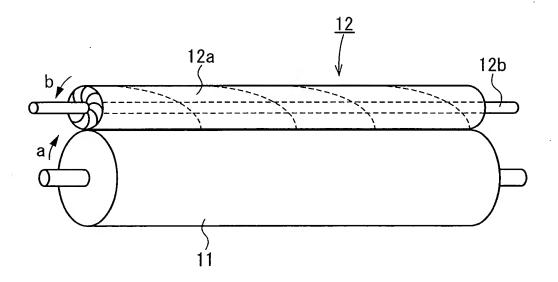


Fig. 3(a)

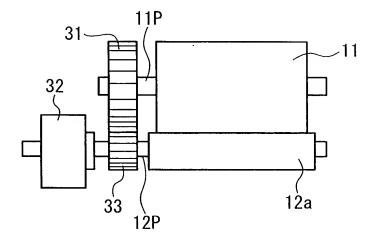


Fig. 3(b)

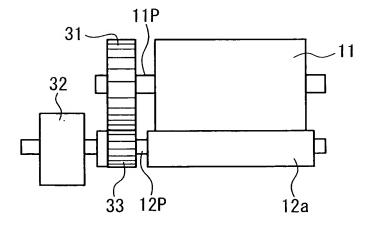
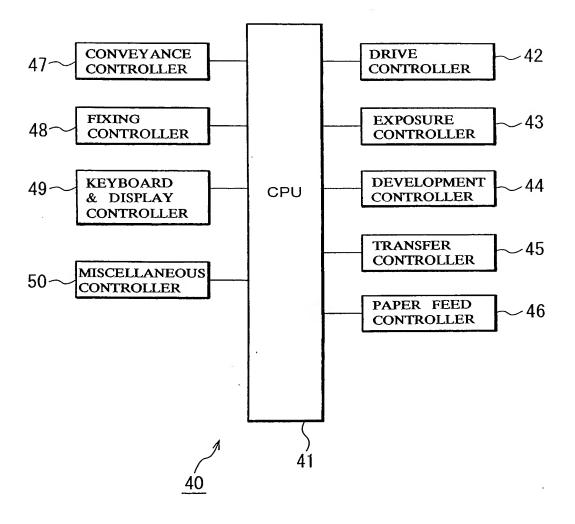


Fig. 4



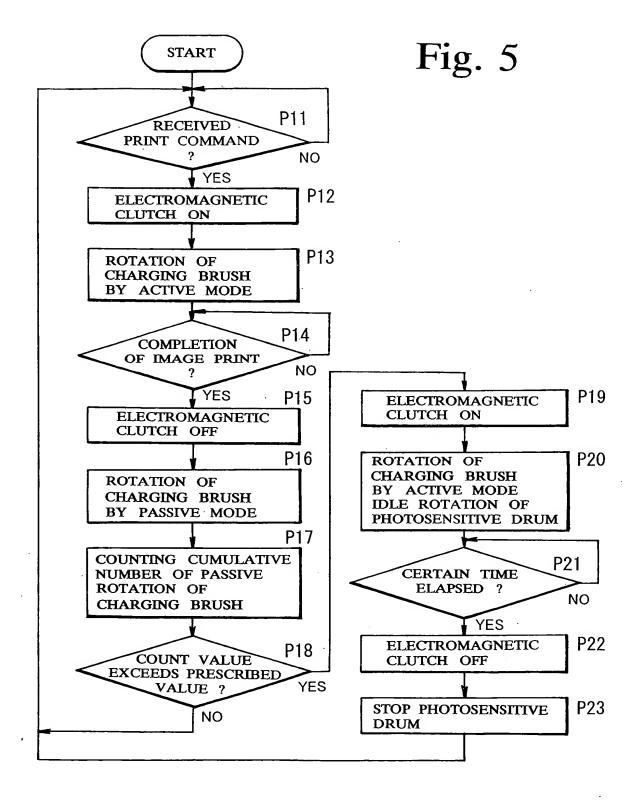


Fig. 6

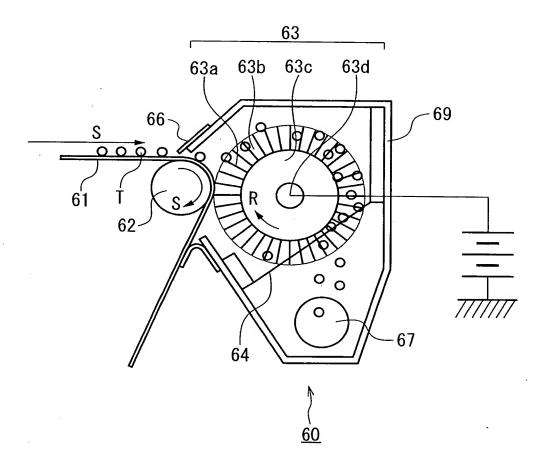


Fig. 7

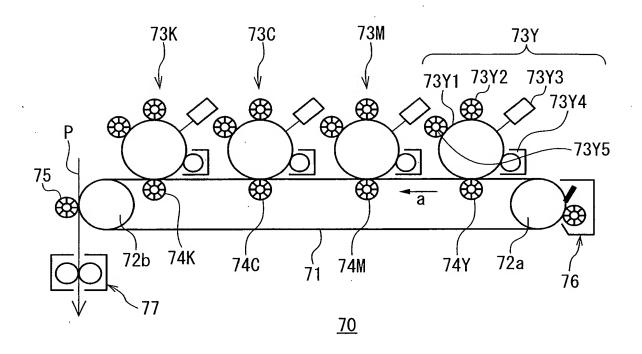


Fig. 8

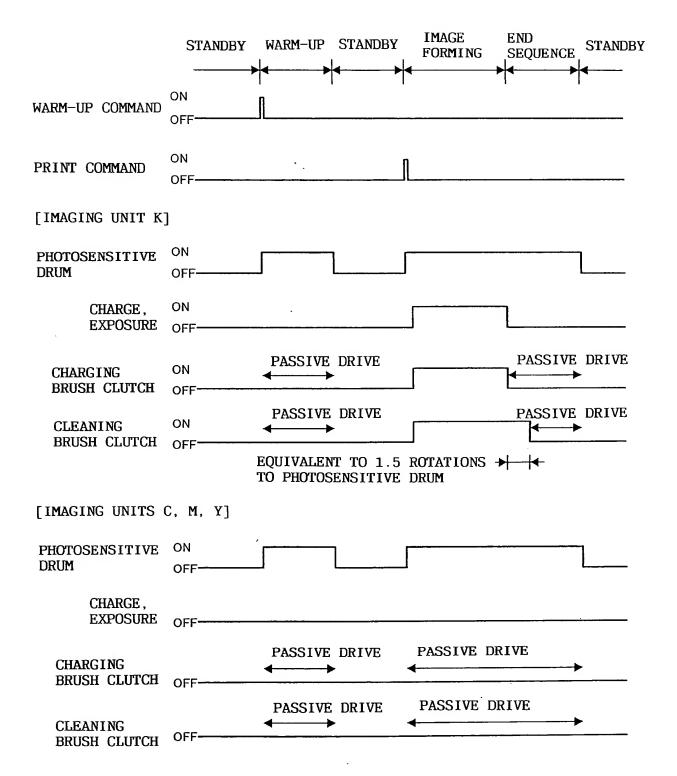


Fig. 9

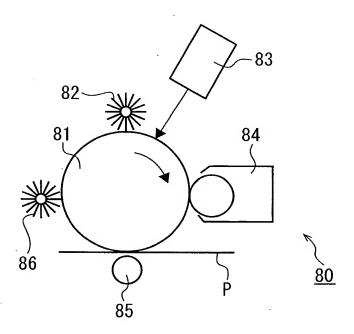


Fig. 10(a)

Fig. 10(b)

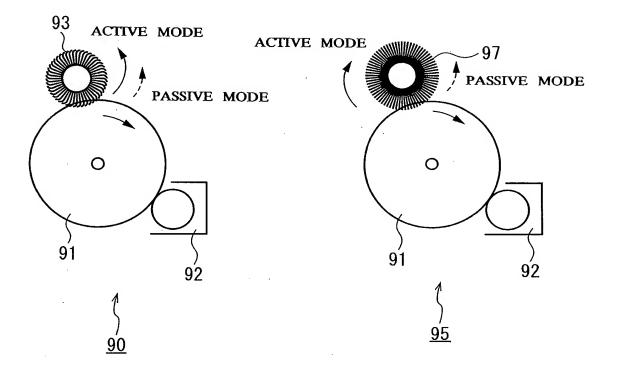


Fig. 11

	А	В	С
FIBER PLANTING DENSITY F/25.4mm <sup>2</sup>	30K-500K	50K-500K	30K-100K
FIBER FINENESS D	2D-10D	2D-6D	4D-10D
FIBER LENGTH	3mm-7mm		

Fig. 12

(Electrifying Brush – Photosensitive Drum)

EXPERIMENT I

	Passive/Active Rotation Mode Switching	Amount of Push p [Nip width n]	nt of h p dth n]	Drun [Numb Before For	Drum Drive Time(s) [Number of Rotation(n)] ore Forced Rotation of E	Drum Drive Time(s) [Number of Rotation(n)] Before Forced Rotation of Brush	Voltage Application in Passive Rotation	Degree of Abrasion $(\mu  \mathrm{m})$	Disorder of Image Brush Fiber Uneve	Image Over all Unevenness Evaluation	Over all Evaluation
Sample 11	YES	0.5mm (4.9mm)	(4.9mm)	240(s) about	1	1100(n)	YES	6.0	0	0	0
Sample 12	YES	0.08mm (2.0mm)	(2.0mm)	240(s) about	ŀ	1000(n)	ON	1.9	0	0	٥
Sample 13	YES	0.5mm	0.5mm (4.9mm)	240(s) about	ľ	1100(n)	ON	1.3	0	0	0
Sample 14	YES	2.0mm	2.0mm (9.2mm)	240(s) about		1400(n)	ON	2.0	0	0	0
Sample 15	YES	0.5mm	0.5mm (4.9mm)	2800(s)	2800(s) about 12300(n)	2300(n)	ON	2.0	0	0	◁
Sample 16	YES	2.0mm	2.0mm (9.2mm)	1700(s)	700(s) about 10200(n)	3200(n)	ON	2.3	0	0	٥
Reference 11	ON.	0.5mm (4:9mm)	(4:9mm)					4.6	. 0	◁	77
Reference 12	YES	0.05mm (1.5mm)	(1.5mm)	240(s)	240(s) about 1000(n)	1000(n)	YES	2.1	0	×	×

Fig. 13

(Cleaning Brush - Photosensitive Drum)

EXPERIMENT II

	Passive/Active Rotation Mode	Amount of Push p	Dru	Drum Drive Time(s) [Number of Rotation(n)]	Voltage Application in	Degree of Abrasion	Disorder of Image	Îmage	Over all
	Switching	[Nip width n]	Before Fo	Before Forced Rotation of Brush	Passive Rotation		Brush Fiber Uneveness	Uneveness	Evaluation
Sample 21	YES	0.5mm (5.6mm)	840(s)	840(s) about 2900(n)	YES	1.2	0	0	0
Sample 22	YES	0.06mm (2.0mm)	1680(s)	about 5400(n)	ON	1.9	0	0	∇
Sample 23	YES	0.1mm (2.5mm)	1680(s)	about 5400(n)	ON	1.2	0	0	0
Sample 24	) YES	0.5mm (5.6mm)	1680(s)	about 5700(n)	ON	1.2	0	0	0
Sample 25	YES	1.76mm (10.0mm)	(s)0891	about 6900(n)	ON	1.6	0	0	0
Sample 26	YES	2.0mm (10.6mm)	1680(s)	about 7100(n)	ON	1.9	0	0	0
Sample 27	YES	0.5mm (5.6mm)	4400(s)	about 14990(n)	ON	1.7	0	0	0
Sample 28	YES	0.5mm (5.6mm)	5900(s)	about 20100(n)	ON	1.7	□ □	0	◁
Sample 29	YES	1.76mm (10.0mm)	3700(s)	about 15200(n)	ON	2.0	0	0	0
Reference 21	ON	0.5mm (5.6mm)				5.2	0	$\triangle$	<b>Δ</b> Δ
Reference 22	YES	0.05mm (1.8mm)	1680(s)	about 5400(n)	ON	1.1	0	×	×
Reference 23	YES	2.5mm (11.6mm)	1680(s)	about 7800(n)	ON	2.7	0	×	×